FIGURE 1

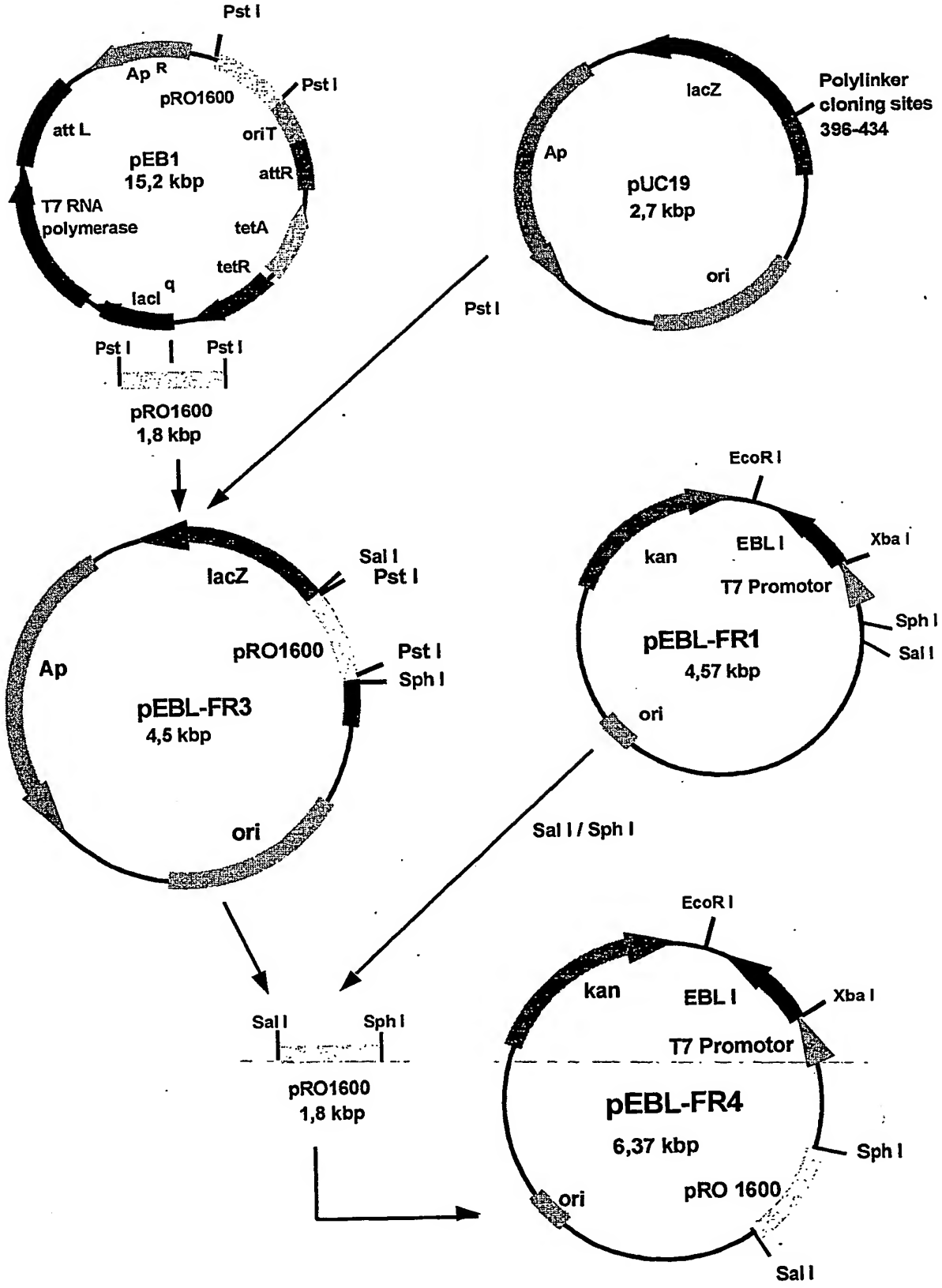

Pst I
Ap R
pRO1600
Pst I
att L
oriT
pEB1
15,2 kbp
attR
T7 RNA
polymerase
tetA
tetR
lacI q
Pst I
Pst I
pRO1600
1,8 kbp
lacZ
Polylinker
cloning sites
396-434
Ap
pUC19
2,7 kbp
ori
Pst I
Sal I
lacZ
Pst I
pRO1600
Pst I
Ap
Sph I
pEBL-FR3
4,5 kbp
ori
EcoR I
kan
EBL I
Xba I
T7 Promotor
Sph I
pEBL-FR1
4,57 kbp
Sal I
ori
Sal I / Sph I
Sal I
Sph I
pRO1600
1,8 kbp
EcoR I
kan
EBL I
Xba I
T7 Promotor
pEBL-FR4
6,37 kbp
Sph I
ori
pRO 1600
Sal I

FIGURE 2

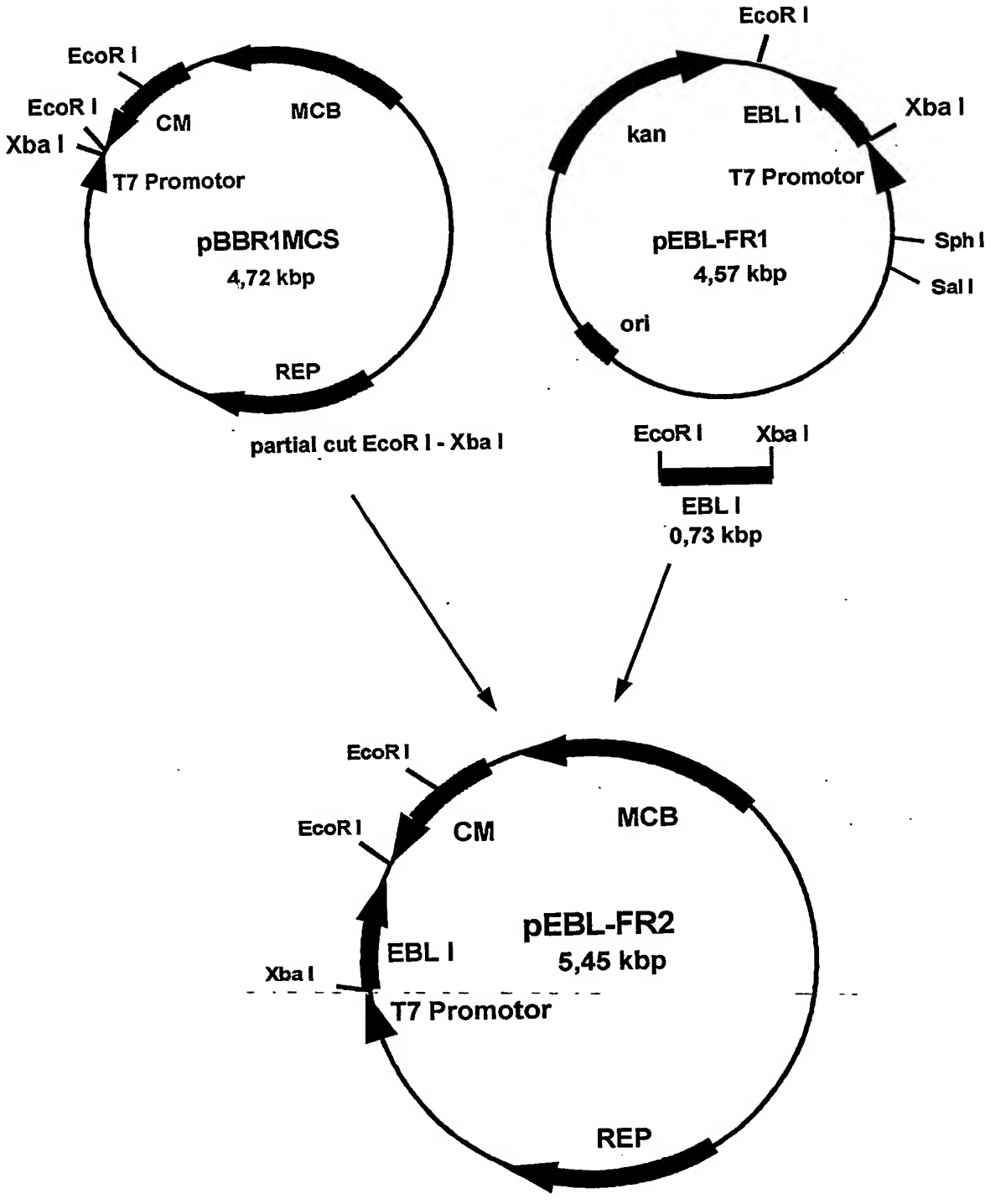
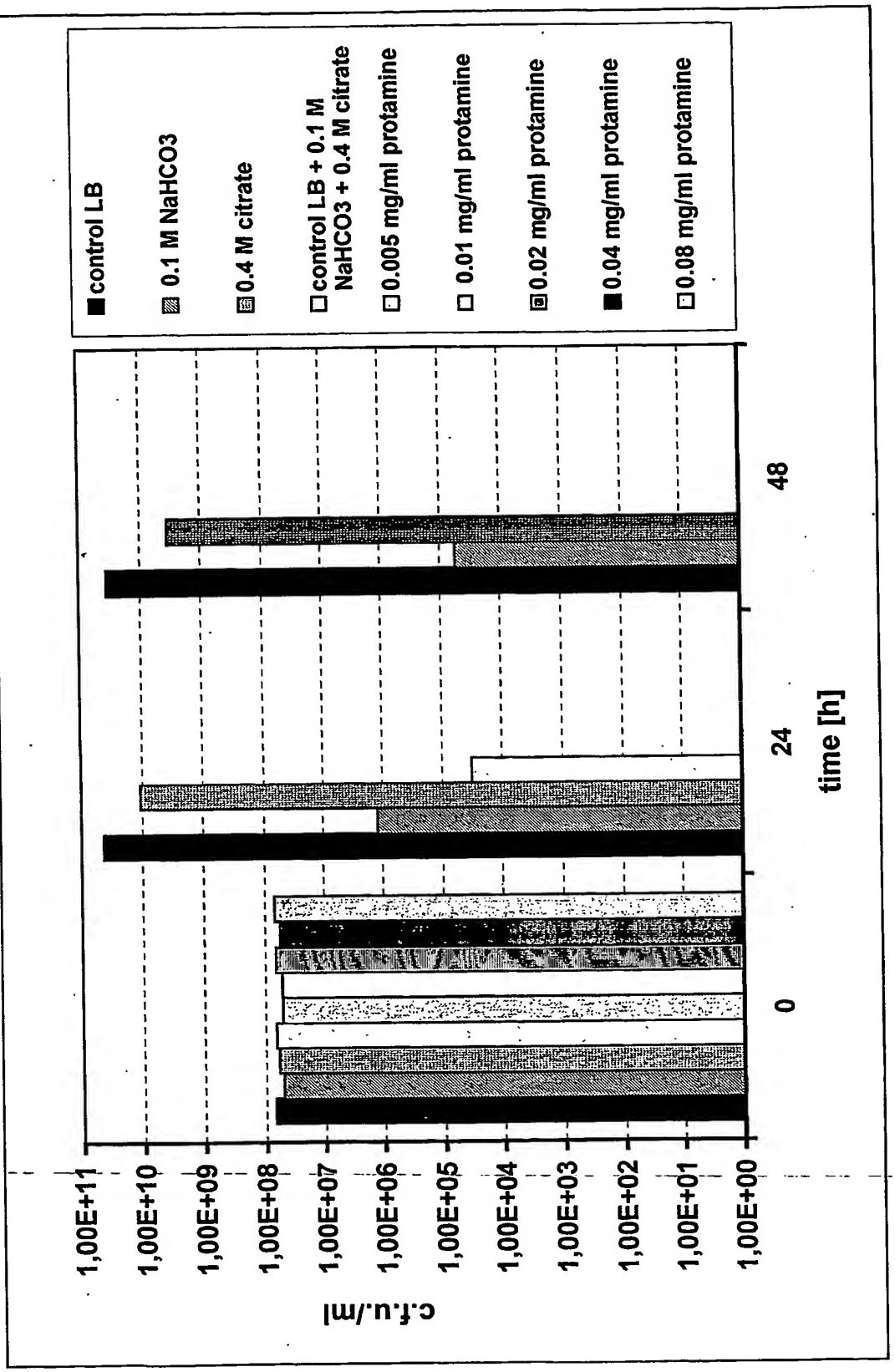

EcoR I
EcoR I
Xba I
CM
MCB
T7 Promotor
pBBR1MCS
4,72 kbp
REP
partial cut EcoR I - Xba I
EcoR I
Xba I
kan
EBL I
Xba I
T7 Promotor
pEBL-FR1
4,57 kbp
Sph I
Sal I
ori
EcoR I
Xba I
EBL I
0,73 kbp
EcoR I
EcoR I
CM
MCB
pEBL-FR2
5,45 kbp
EBL I
Xba I
T7 Promotor
REP

FIGURE 3


control LB
0.1 M NaHCO3
0.4 M citrate
control LB + 0.1 M NaHCO3 + 0.4 M citrate
0.005 mg/ml protamine
0.01 mg/ml protamine
0.02 mg/ml protamine
0.04 mg/ml protamine
0.08 mg/ml protamine
c.f.u./ml
1,00E+11
1,00E+10
1,00E+09
1,00E+08
1,00E+07
1,00E+06
1,00E+05
1,00E+04
1,00E+03
1,00E+02
1,00E+01
1,00E+00
0
24
48
time [h]

10/518001

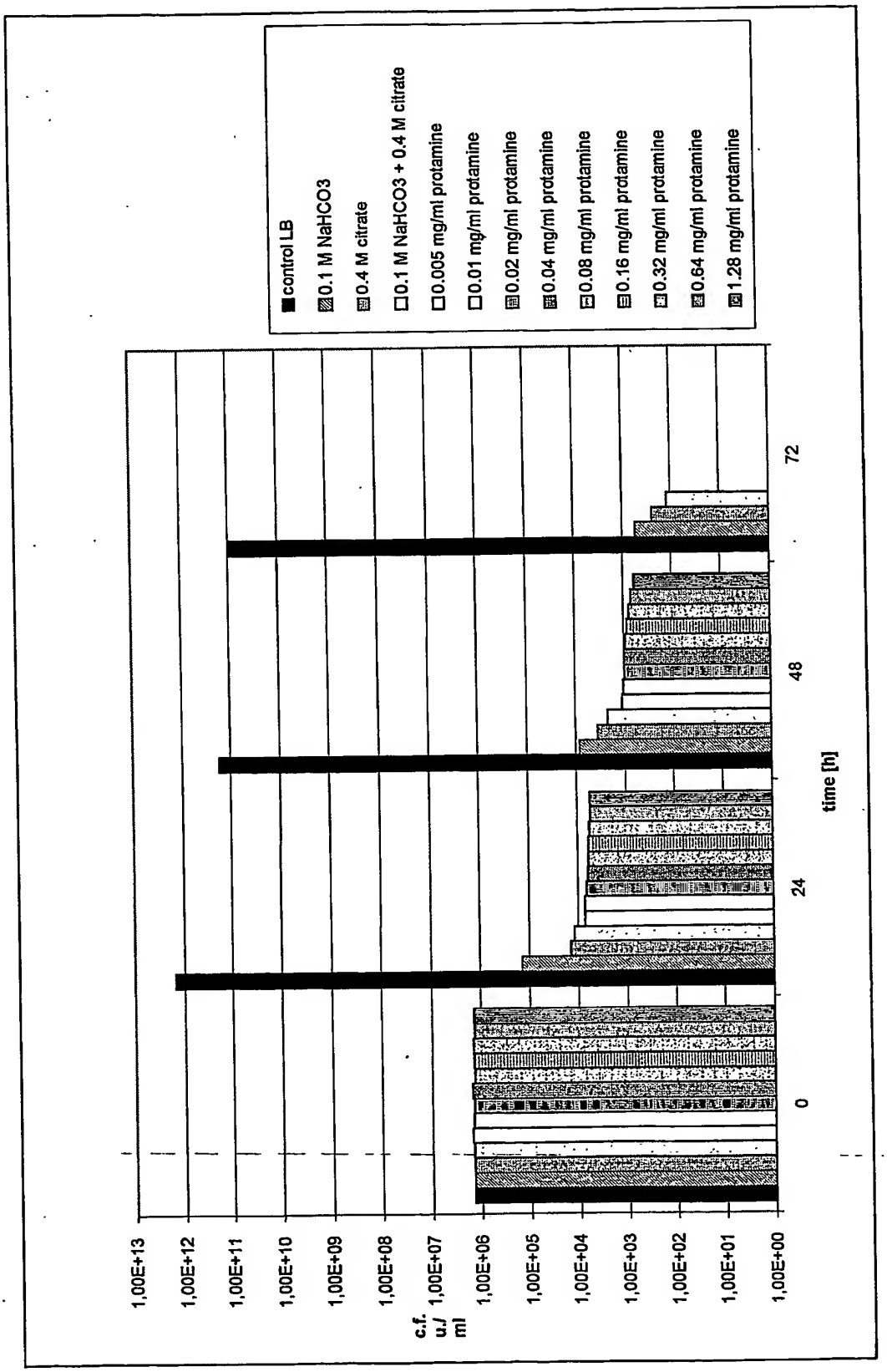



FIGURE 4